AC4.1 GENOMIC CLONE ~ 13 Kb
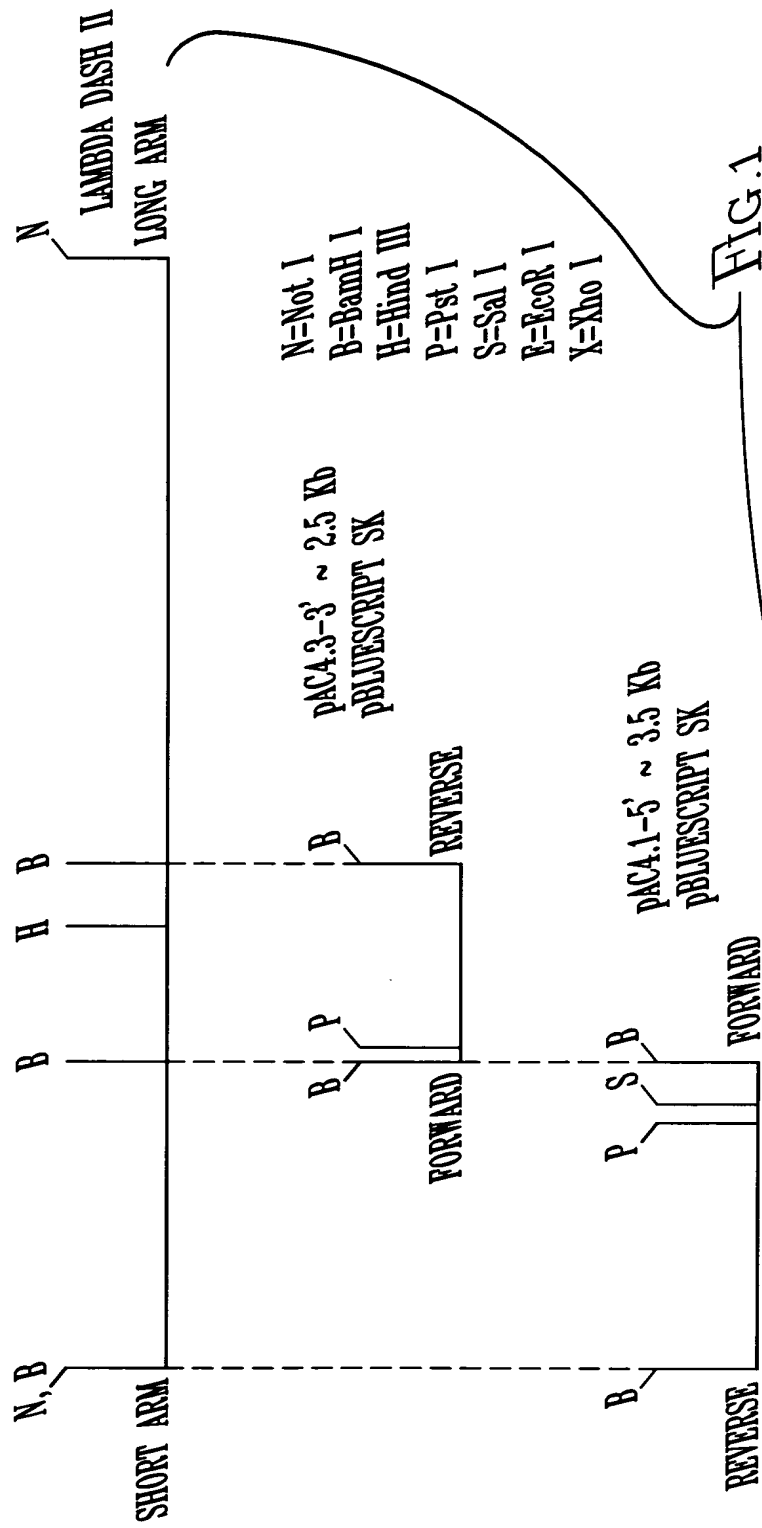
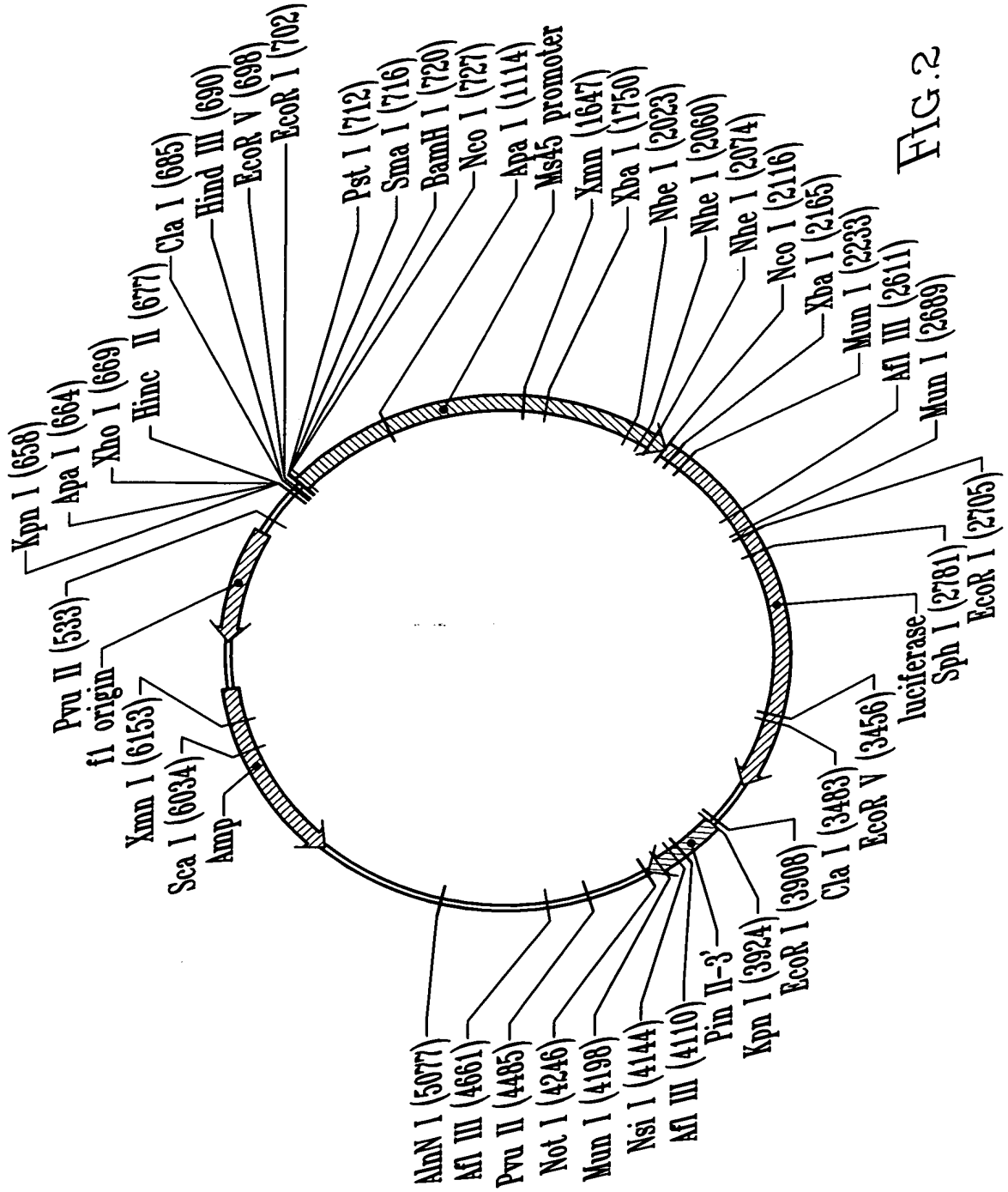LAMBDA DASH II
LONG ARM

N=Not I
B=BamH I
H=Hind III
P=Pst I
S=Sal I
E=EcoR I
X=Xho I

pAC4.3-3' ~ 2.5 Kb
pBLUESCRIPT SK

pAC4.1-5' ~ 3.5 Kb
pBLUESCRIPT SK

REVERSE

FORWARD

FORWARD

REVERSE

SHORT ARM

N, B

FIG.1

FIG. 2

Kpn I (658)
Apa I (664)
Xho I (669)
Hinc II (677)
Cla I (685)
Hind III (690)
EcoR V (698)
EcoR I (702)
Pst I (712)
Sma I (716)
BamH I (720)
Nco I (727)
Apa I (1114)
Msd5 promoter
Xmn I (1647)
Xba I (1750)
Nde I (2023)
Nhe I (2060)
Nhe I (2074)
Nco I (2116)
Xba I (2165)
Mun I (2233)
Afl III (2611)
Mun I (2689)
EcoR I (2705)
Sph I (2781)
luciferase
EcoR V (3456)
Cla I (3483)
EcoR I (3908)
Kpn I (3924)
Pin II-3'
Afl III (4110)
Nsi I (4144)
Mun I (4198)
Not I (4246)
Pvu II (4485)
Afl III (4661)
AlwN I (5077)
Amp
Sca I (6034)
Xmn I (6153)
f1 origin
Pvu II (533)

FIG.3

FIG.4

FIG.5

FIG.6A

pUbi:Luci

FIG.6B

pMS45:Luci

Fig. 7
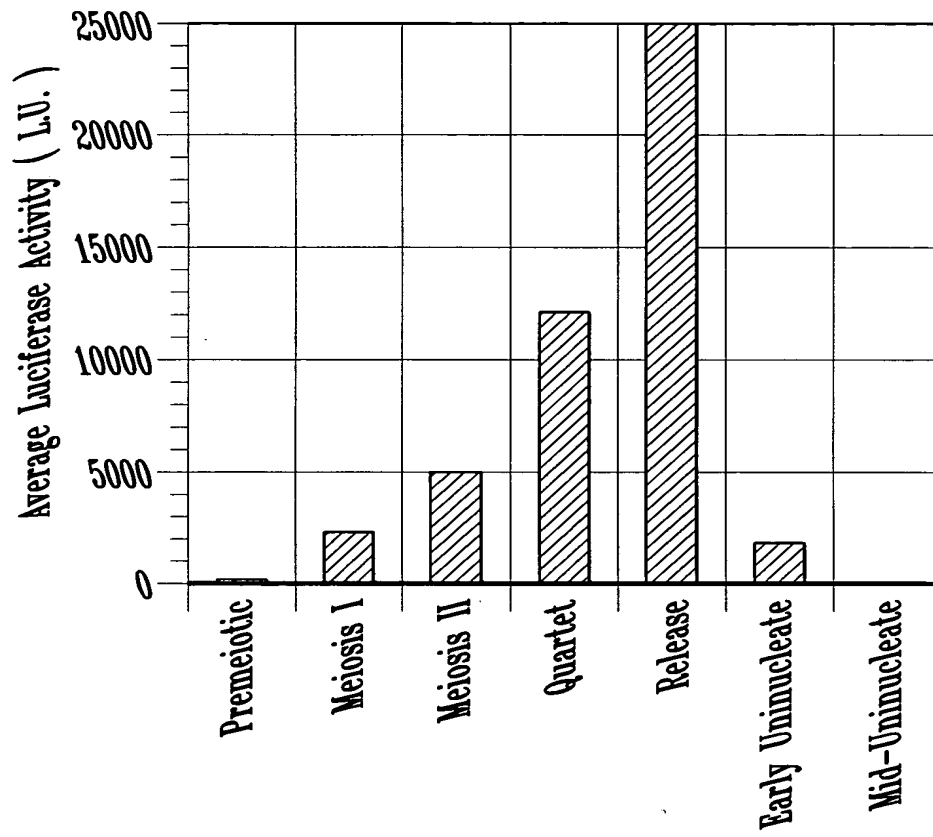
```
                            NotI       BamHI
                             |           |
-209                    GCGGCCGC GGATCCCGTG TCATCTCACA TGGCATACTA
                                 GCGC GGGCCCGCGC
                                      LS01              GCCGGGCCCG
                                                        LS02

-171        CATGCTTGTT CAACCGTTCG TCTTGTTCCA TCGTCCAAGC CTTGCCTATT
            GCGCGGGCCC
              LS03     GCGGGCCCGC
                         LS04    CGGGCCCGGC
                                    LS05    CGCGGGCCCG
                                              LS06    GCGCGGGCCC
                                                        LS07

-121        CTGAACCAAG AGGATACCTA CTCCCAAACA ATCCATCTTA CTCATGCAAC
            GGCCGGGCCC
              LS08     GCCGGGGCCC
                         LS09    GCGGGCCCGC
                                    LS10    GCGGGGGCCC
                                              LS11    GGGCCCGCCG
                                                        LS12
                                         BglII
                                           |
-71         TTCCATGCAA ACACGCACAT ATGTTTCCTG AACAGATCTA TTAAAGATCA
            CGGGCCCGCG
              LS13     CGGGCCCGCG
                         LS14    GGGCCCGGCC GCG
                                    LS15

-21         CAACAGCTAG CGTTCTCCCG CTAGCTTCCC TCTCTCCTCT GCCGATCTTT

                         NcoI
                           |
+30         TTCGTCCACC ACCATGG
```
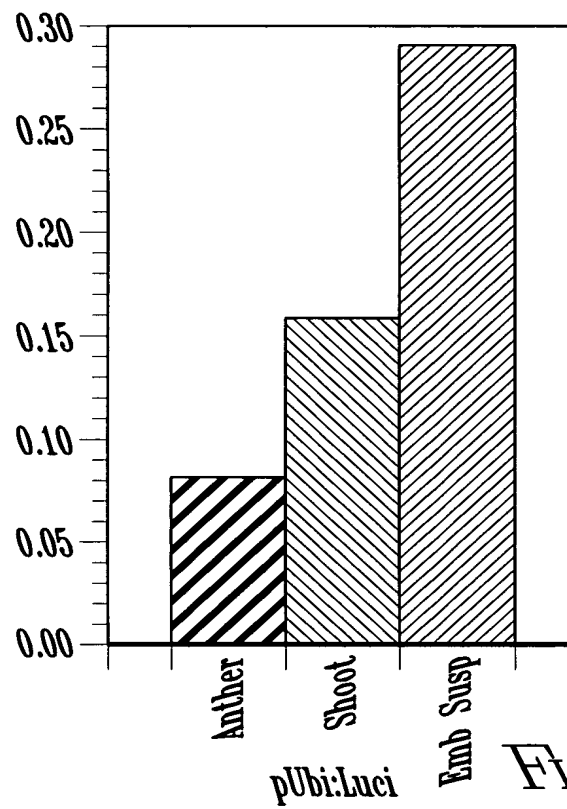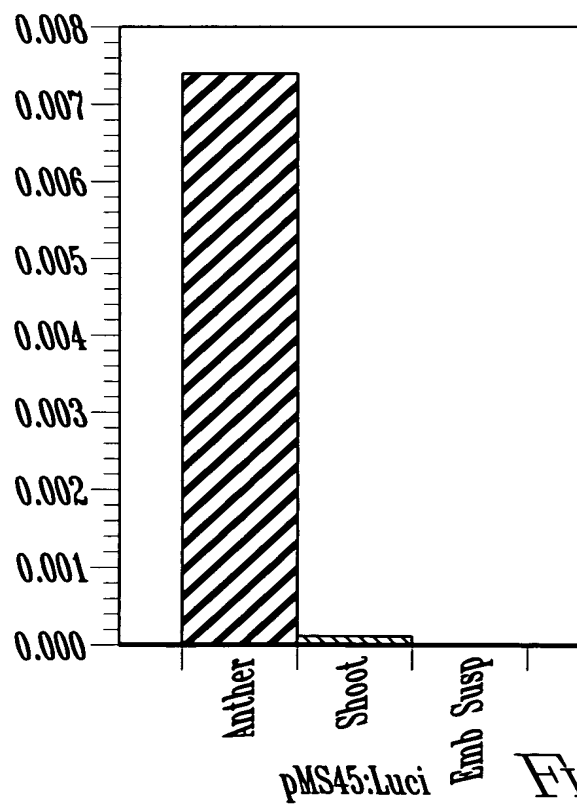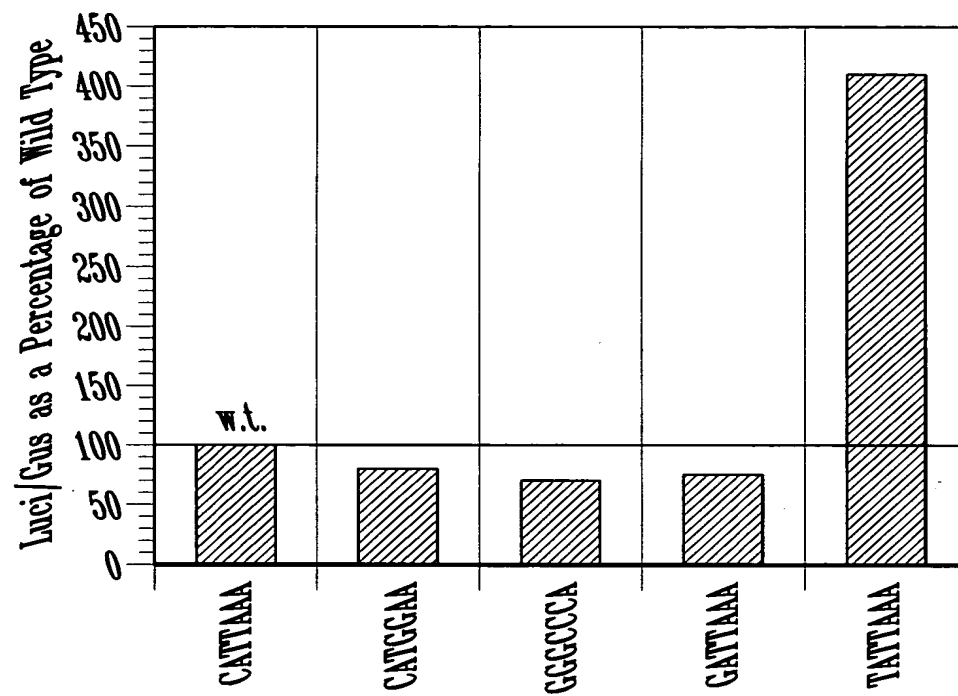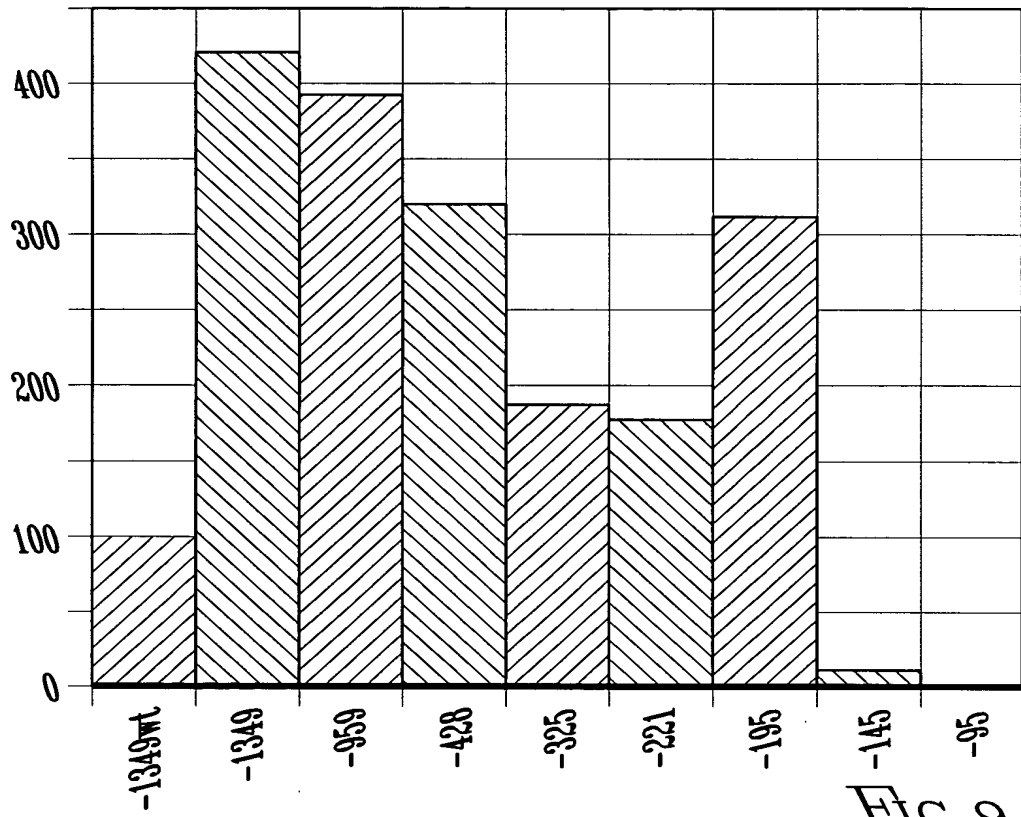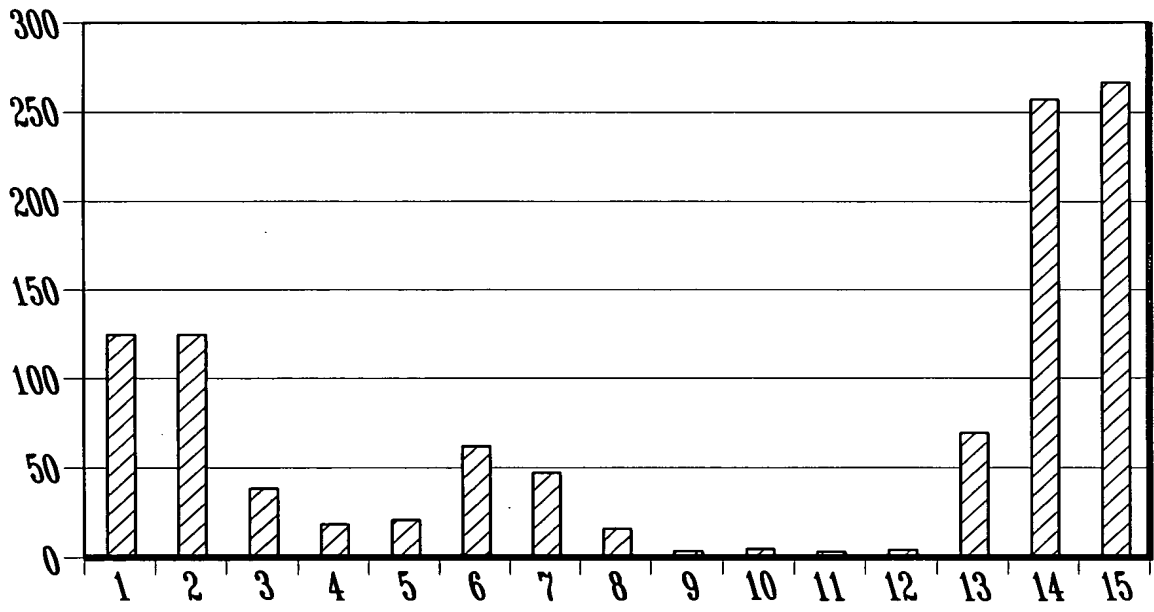
FIG.8

FIG.9

Y-axis: 0, 100, 200, 300, 400

X-axis labels: -1349wt, -1349, -959, -428, -325, -221, -195, -145, -95

FIG.10